MediaLink® Controllers for MK Junction Boxes

MLC 52 RS MK
MLC 52 RS VC MK

Simply take control of your A/V system

➤ Universal display control

➤ Discrete ON and OFF display power controls

➤ Volume control using buttons or integrated volume control knob

➤ Configurable, backlit, easy-to-label buttons

➤ Three easy ways to configure: IR learning, preconfigured display drivers, and IR beaming

➤ Inactivity timer for display shutoff

➤ Front panel security lockout

➤ Designed to mount in a 47 mm deep MK junction box for UK, Singapore, Hong Kong and other markets that use MK-type junction boxes

➤ Available with white or brushed aluminum faceplate

Extron® Electronics

www.extron.com

Introduction

Extron **MLC 52 RS MK** and **MLC 52 RS VC MK** MediaLink Controllers are economical control panels ideally suited for conference room or classroom A/V systems. Each model fits in a standard MK wall or junction box and offers IR control and unidirectional RS-232 control. The MLC 52 RS VC MK adds an integrated volume control knob for use with any Extron power amplifier or preamplifier with a remote volume control port. By providing easy input selection, power, and volume control, these controllers make classroom A/V operations simple. Both models are available in a white or brushed aluminum finish to complement a wide range of environments.

Consistent A/V Control in Every Room

Each MLC 52 controller acts as an extended remote control panel, providing user-friendly control for a display's power, volume, and input selection. Because the MLC 52 offers a central point of control for a display device's key functions, it eliminates the need for the display's handheld IR remote control, making operations much more efficient. With the MLC 52, there are no misplaced remotes to search for, no confusing menus to navigate through, and no dead batteries to replace.

No matter what brand of display is installed in each presentation venue, the MLC 52 MediaLink Controllers always provide a consistent control method from room to room. Presenters with little or no training can walk into any MediaLink equipped classroom and operate the A/V system with ease.

Configurable Buttons for Flexible Control Options

The MLC 52 MediaLink Controllers are easy to configure and no programming is required to make them work. Each MLC 52 has six buttons that can be configured to control almost any function of the projector, such as selecting an input, controlling the volume, muting the picture or switching it on and off. Using the intuitive setup software provided, these buttons can be configured to send out any IR or RS-232 command supported by the projector, making it easy to customize the controller to meet the needs of single-display A/V systems.

Each button can store up to four separate commands, providing additional flexibility to meet the specific control requirements for most display devices. When a button is configured for Macro mode, all of the stored commands associated with that button can be sent with the press of a single button. In Toggle mode, the button steps through a series of two, three, or four commands, issuing a single command with each press of the button.

Free Projector Drivers

Extron creates and administers a wide selection of commonly used projector control drivers. These IR and serial RS-232 drivers allow MediaLink Controllers to communicate with a display device. They enable control of basic projector functions such as power, input selection, and volume adjustment. Go to the Extron Web site at www.extron.com to download drivers for the latest and most popular projectors.

Three Easy Ways to Configure

The MLC 52 enables integrators to choose any of three methods when configuring the controllers. When used with the supplied Windows®-based configuration software, installation files can be saved and used to duplicate additional MLC 52 models. The files can also be archived for later use.

- **Simple configuration wizard** - Experience fast and simple setup within minutes using the front panel configuration port, supplied software, and the PC's RS-232 port. Quickly allocate a function to a button just by dragging the command to the desired button.
- **IR learning** - Set up the MLC 52 directly by beaming commands from the IR remote to the MLC 52, without the need for software and a PC.
- **IR beaming** - Setting up multiple controllers with the same configuration is made easy with IR beaming. Simply beam the complete configuration from one MLC 52 controller to another controller, without using any cable or software.

Convenient MK size

The MLC 52 RS MK Series controllers were designed to fit the standard 1-gang (MLC 52 RS MK) or 2-gang (MLC 52 RS VC MK) MK Electric size boxes. This gives maximum flexibility to the installer to mount the controller in either MK size junction boxes, surface mount boxes, or cable channels.

MLC 52 RS MK
MediaLink Controller

Overview

Display ON/OFF
Clearly labeled buttons make it easy and convenient to turn the display on and off, eliminating the need for an external display remote

Volume Control
Provides level control of a display's speaker or variable line level output. If control is not required or additional source switching is needed, these buttons can be configured for input selection, display mute, auto-image, or other commands

MK Standard Size
MLC 52 RS MK Series controllers fit conveniently in standard MK size junction boxes
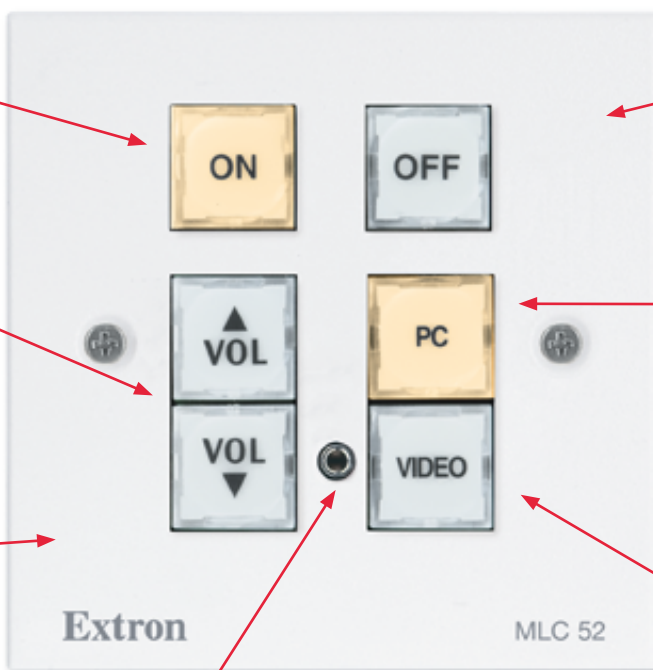
White or Brushed Aluminum
Available in white or brushed aluminum finish to complement a wide range of environments

Backlit Buttons
Illuminated buttons can be custom-labeled with supplied label insert sheets for easy identification. These buttons are helpful for presenters in low-light environments

Multiple Memories
Each button can store up to four IR or serial RS-232 commands

MLC 52 RS MK
Front Panel

Configuration Port
Allows for configuration of the MLC 52 via the front panel

Volume Control Knob
The MLC 52 RS VC MK features an integrated volume control knob for use with any Extron amplifier or preamplifier with a remote volume control port

MLC 52 RS VC MK in brushed aluminum finish

Built-In IR Emitter/Receiver
Enables IR learning of commands from the display's handheld remote. Also provides IR beaming for controller-to-controller configuration without software

IR Learning Indicators
LEDs that provide visual feedback of memory block status and learning mode
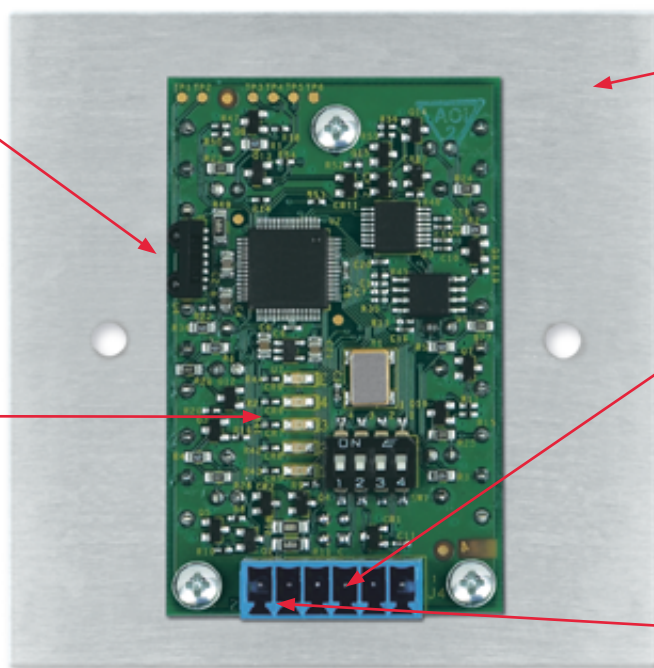
Inactivity Timer for Display Shut-off
Adjustable timer controls automatic shutdown to conserve energy, prevent plasma burn-in, or extend projector lamp life

IR Remote Control Input Port
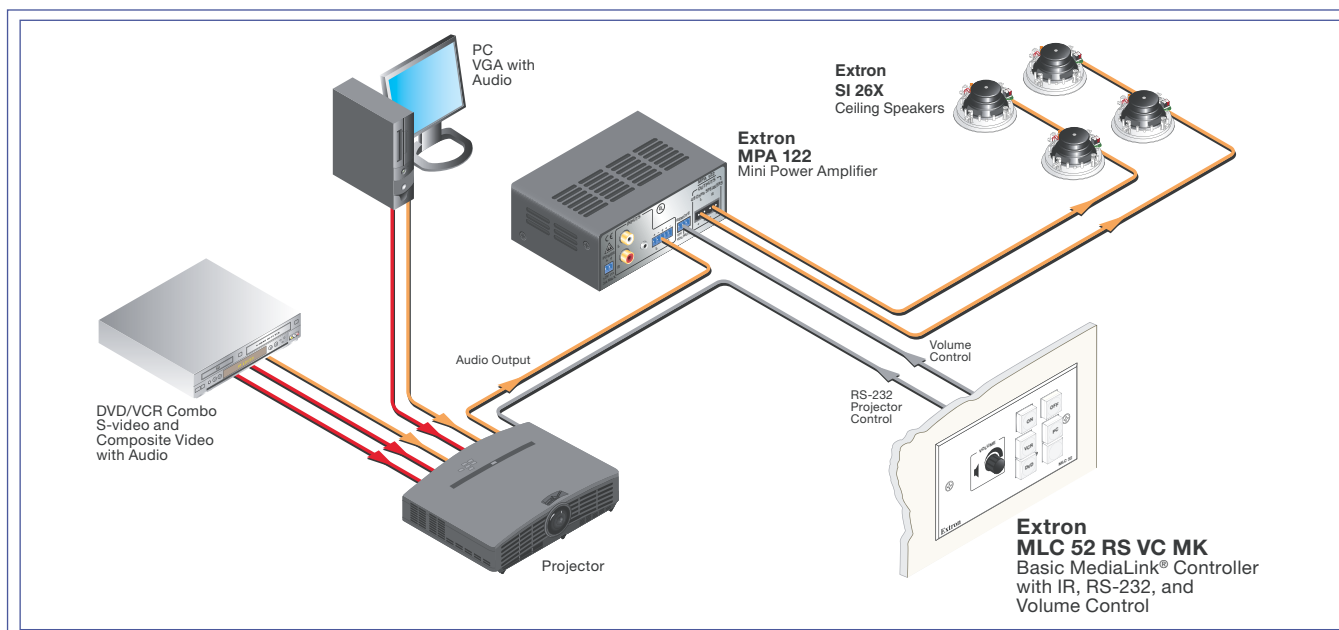Hardwired IR input for control with optional handheld remote and signal repeater

Display Control Port
Provides serial RS-232 and IR universal display control

MLC 52 RS MK
Back Panel

Application Diagram and Specifications

PC VGA with Audio

Extron SI 26X Ceiling Speakers

Extron MPA 122 Mini Power Amplifier

DVD/VCR Combo S-video and Composite Video with Audio

Audio Output

Volume Control

RS-232 Projector Control

Projector

Extron MLC 52 RS VC MK Basic MediaLink® Controller with IR, RS-232, and Volume Control

CONTROL — HOST PORTS

Serial control port	1 bidirectional RS-232 front panel 2.5 mm mini stereo jack
Baud rate and protocol	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations	Mini stereo jack: tip = TX, ring = RX, sleeve = GND
Program control	Extron's configuration program for Windows® Extron's Simple Instruction Set (SIS™)
IR learning frequencies	30 kHz to 62 kHz
IR learning distance	4" (10 cm) to 14" (36 cm) from the front panel

CONTROL — SERIAL PORT

Display control port	(1) 3.5 mm captive screw connector, 6 pole for unidirectional RS-232 control (±5 V) (connector is shared with IR control port and power input)
Baud rate and protocol (RS-232)	57600 to 1200 (9600 default) baud (configurable); 8 (default) or 7 data bits; 1 stop bit; no parity (default), or even or odd parity

CONTROL — PROJECTOR/PLASMA (IR PORT)

IR control port	(1) 3.5 mm captive screw connector, 6 pole for IR (port is shared with power input); TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz

CONTROL — REMOTE VOLUME (VC MODELS ONLY)

Volume control port	(1) 3.5 mm direct insertion captive screw connector, 3 pole
Pin configuration	1 = +10 VDC, 50 mA (max); 2 = volume (variable voltage); 3 = GND
Volume control voltage range	0 V (mute) to 10 V (maximum volume)

GENERAL

External power supply	100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 2 A, regulated
Power input requirements	12 VDC, 0.15 A
Mounting	
MLC 52 RS MK, MLC 52 RS VC MK	Mounts to a standard 47 mm deep MK electric type British standard wall box
Enclosure type	Metal
Enclosure dimensions	
MLC 52 RS MK	
Faceplate	3.4" H x 3.4" W x 0.1" D 8.5 cm H x 8.5 cm W x 0.3 cm D (1-gang MK electric type British Standard wall box frame size)

GENERAL (CONT.)

Device	2.7" H x 1.7" W x 1.4" D (6.8 cm H x 4.3 cm W x 3.5 cm D) (Overall rear dimensions, including connectors. Allow at least 1.85" [4.7 cm] depth in the wall or furniture for device and cable clearance.)
MLC 52 RS VC MK	
Faceplate	3.4" H x 5.7" W x 0.1" D 8.5 cm H x 14.6 cm W x 0.3 cm D (2-gang MK electric type British Standard wall box frame size)
Device	2.7" H x 3.3" W x 1.4" D (6.8 cm H x 8.4 cm W x 3.5 cm D) (Overall rear dimensions, including connectors. Allow at least 1.85" [4.7 cm] depth in the junction box for device and cable clearance.)
Product weight	MLC 52 RS MK 0.2 lb (0.1 kg) MLC 52 RS VC MK 0.3 lb
Shipping weight	3 lbs (2 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, CUL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, Section 508 of the Rehabilitation Act (29U.S.C.794d), VCCI Class A
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%

Model	Version Description	Part Number
Two-Gang		
MLC 52 RS MK	White Faceplate	60-744-23
MLC 52 RS MK	Brushed Aluminum Faceplate	60-744-24
Two-Gang with Integrated Volume Control Knob		
MLC 52 RS VC MK	White Faceplate	60-745-23
MLC 52 RS VC MK	Brushed Aluminum Faceplate	60-745-24

Optional Accessories

CFG Cable	9 DB Female-2.5 mm TRS Config Cable - RS Version Only	70-335-01
IPL T S2	Two Serial Port IP Link Ethernet Control Interface	60-544-01
IR Link	Wall-Mountable IR Signal Repeater	60-404-02
IR Sensor	Remote IR Receiver	70-223-01

Included Accessories

EPS 1210B	100-240VAC, 50/60Hz, to 12VDC,2A, wire	70-055-01
MLC 52 Series		
Button Labels	Text and Icon Labels	33-1262-01
International Labels	MediaLink International Faceplate Labels	33-1167-0X
IR Emitter and Shield Kit	IR Emitter Kits	70-283-01

Specifications are subject to change without notice.

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